

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., *December 31, 1914.*

MONTHLY LIST OF PUBLICATIONS.

[DECEMBER, 1914.]

No publications are sold by the Department of Agriculture; therefore do not send money to this office.

Copies of any of the publications listed herein, except the *Journal of Agricultural Research* and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

When this department's supply is exhausted, publications can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

SERIALS.

Journal of Agricultural Research. Vol. 3, No. 3. December, 1914. Contents: Changes in Composition of Peel and Pulp of Ripening Bananas. By H. C. Gore.—Assimilation of Colloidal Iron by Rice. By P. L. Gile and J. O. Carrero.—Coloring Matter of Raw and Cooked Salted Meats. By Ralph Hoagland.—Oil Content of Seeds as Affected by the Nutrition of the Plant. By W. W. Garner, H. A. Allard, and C. L. Foubert.—Studies in the Expansion of Milk and Cream. By H. W. Bearce.—Life History of the Melon Fly. By E. A. Back and C. E. Pemberton.—Identification of the Seeds of Species of *Agropyron*. By Robert C. Dahlberg. Pp. 187–282, pls. xxxii–xxxvii, figs. 4. Price, 25 cents.

NOTE.—THE JOURNAL OF AGRICULTURAL RESEARCH will be distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being \$2.50 per year, 12 numbers.

Experiment Station Record, Vol. XXXI, No. 6. Abstract Number. E. W. Allen, Ph. D., Editor. Pp. 501–600. Price, 15 cents.

Same, Vol. XXXI, No. 7, November, 1914. Pp. 601–700. Price, 15 cents.

Same, Vol. XXXI, No. 8, December, 1914. Pp. 701–800. Price, 15 cents.

Same, Vol. XXXI, No. 9, Abstract Number. Pp. 801–900. Price, 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, 10 numbers each, at \$1 a volume.

SERVICE AND REGULATORY ANNOUNCEMENTS.

NOTE.—Contain information, instructions, and notices of a regulatory nature. Issued monthly by certain bureaus. Free distribution limited to individuals, firms, establishments, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, at 5 cents each.

Bureau of Animal Industry. November, 1914. Pp. 147–156. Dec. 23, 1914.

Bureau of Chemistry. November, 1914. Pp. 751–752. Dec. 31, 1914.

Federal Horticultural Board. November, 1914. Pp. 81–85. Dec. 23, 1914.

SOIL SURVEYS.

Soil Survey of Habersham County, Georgia. By David D. Long, of the Georgia State College of Agriculture, and E. C. Hall, of the U. S. Department of Agriculture. Pp. 48, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Jones County, Georgia. By David D. Long, of the Georgia State College of Agriculture, and G. A. Crabb, L. L. Brinkley, Ridsen T. Allen, and E. J. Grimes, of the U. S. Department of Agriculture. Pp. 44, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

BULLETINS.

Cereal Experiments at Dickinson, North Dakota. By J. Allen Clark, Scientific Assistant, Office of Cereal Investigations. Pp. 44, pl. 1, figs. 7. Contribution from the Bureau of Plant Industry. Dec. 17, 1914. (Department Bulletin 33.) Price, 10 cents.

This bulletin is of interest to agronomists and cereal breeders generally, and to farmers in the northern Great Plains States.

Inland Boat Service: Freight Rates on Farm Products and Time of Transit on Inland Waterways in the United States. By Frank Andrews, Chief, Division of Crop Records. Pp. 36. Contribution from the Bureau of Crop Estimates and the Office of Markets. Dec. 12, 1914. (Department Bulletin 74.) Price, 5 cents.

A discussion of the transportation of farm products by inland water carriers and statistics of operations in September and October, 1912, are contained in this bulletin.

Norway Pine in the Lake States. By Theodore S. Woolsey, jr., Assistant District Forester, District 3, and Herman H. Chapman, Professor, Yale Forest School. Pp. 42, pls. 6. Contribution from the Forest Service. (Professional Paper.) Dec. 4, 1914. (Department Bulletin 139.) Price, 10 cents.

The manuscript describes the life history of the Norway pine, its requirement upon soil, moisture, and climate, its rate of growth and yield, and the best methods for its management.

The Clyde Series of Soils. By J. A. Bonsteel, Scientist in the Soil Survey. Pp. 60, pls. 10. Contribution from the Bureau of Soils. Dec. 17, 1914. (Department Bulletin 141.) Price, 15 cents.

This bulletin discusses the origin, characteristics, and uses of the Clyde series of soils; it is suitable for distribution in New York, Ohio, Indiana, Michigan, and Wisconsin.

The Miami Series of Soils. By J. A. Bonsteel, Scientist in the Soil Survey. Pp. 59, pls. 13. Contribution from the Bureau of Soils. Dec. 29, 1914. (Department Bulletin 142.) Price, 15 cents.

This bulletin is of interest to those engaged or desirous of engaging in farming in the North Central States.

The Manufacture of Acid Phosphate. By William H. Waggaman, Scientist in Fertilizer Investigations. Pp. 23, pls. 5. Contribution from the Bureau of Soils. Dec. 24, 1914. (Department Bulletin 144.) Price, 10 cents.

Describes the manufacture of acid phosphate from phosphate rock, detailing the chemical and mechanical changes involved. Of interest to fertilizer manufacturers generally.

The Use of Radioactive Substances as Fertilizers. By William H. Ross, Scientist in Soil Laboratory Investigations. Pp. 14. Contribution from the Bureau of Soils. Dec. 11, 1914. (Department Bulletin 149.) Price, 5 cents.

This bulletin discusses the fertilizer value of radioactive materials; it is suitable for distribution in any part of the United States.

Wood Pipe for Conveying Water for Irrigation. By S. O. Jayne, Irrigation Manager. Pp. 40, pls. 4, figs. 7. Contribution from the Office of Experiment Stations. (Professional Paper.) Dec. 23, 1914. (Department Bulletin 155.) Price, 10 cents.

This bulletin will be of interest to irrigation engineers, owners of irrigation works, water power companies, and water departments of municipalities.

The Mediterranean Fruit Fly in Bermuda. By E. A. Back, Entomological Assistant, Mediterranean Fruit Fly Investigations. Pp. 8. Contribution from the Bureau of Entomology. Dec. 18, 1914. (Department Bulletin 161.) Price, 5 cents.

This bulletin discusses the history of the fly in Bermuda, the life history of the insect, and the possibility of eradicating it from Bermuda; the bulletin is of interest to entomologists.

Quassin as a Contact Insecticide. By William B. Parker, Entomological Assistant, Bureau of Entomology. Pp. 8, fig. 1. Contribution from the Bureau of Entomology. (Professional Paper.) Dec. 31, 1914. (Department Bulletin 165.) Price, 5 cents.

The results of an investigation to determine the most suitable solution of quassin for use as a spray for the control of the hop aphid are discussed in this bulletin.

The Dasheen, A Root Crop for the South. By Robert A. Young, Botanical Assistant, Foreign Seed and Plant Introduction, Bureau of Plant Industry. Pp. 10, pls. 3. Dec. 5, 1914. (B. P. I. No. 1110.)

This paper deals with experiments in the cultivation of the dasheen, and in the cooking and preparation of the tubers for the table.

Single-Stalk cotton Culture. By O. F. Cook, Bionomist in Charge, Crop Acclimatization and Adaptation Investigations, Bureau of Plant Industry. Pp. 11, figs. 12. Dec. 14, 1914. (B. P. I. No. 1130.) Price, 5 cents.

This paper is of interest to cotton growers in all sections of the United States.

FARMERS' BULLETINS.

Winter Wheat Varieties for the Eastern United States. By Clyde E. Leighty, Agronomist in Charge of Eastern Wheat Investigations. Pp. 14, figs. 6. Contribution from the Bureau of Plant Industry. Dec. 12, 1914. (Farmers' Bulletin 616.)

-Of interest in the wheat-growing sections of the eastern United States.

How to Attract Birds in Northeastern United States. By W. L. McAtee, Assistant Biologist. Pp. 15, figs. 11. Contribution from the Bureau of Biological Survey. Dec. 14, 1914. (Farmers' Bulletin 621.)

Means of providing a food supply for wild birds about the homestead are especially described in this bulletin.

Basket Willow Culture. By George N. Lamb, Scientific Assistant, Forest Service. Pp. 34, figs. 24. Contribution from the Forest Service. Dec. 10, 1914. (Farmers' Bulletin 622.)

This bulletin is of interest to those engaged in or contemplating basket-willow culture, and is applicable to all portions of the country where willows are grown.

Cotton Wilt and Root-Knot. By W. W. Gilbert, Pathologist, Office of Cotton and Truck Disease and Sugar-Plant Investigations. Pp. 21, figs. 15. Contribution from the Bureau of Plant Industry. Dec. 12, 1914. (Farmers' Bulletin 625.)

Contains description of cotton wilt and root-knot and methods of prevention.

The Carpet Beetle or "Buffalo Moth." By L. O. Howard, Entomologist and Chief of Bureau. Pp. 4, fig. 1. Contribution from the Bureau of Entomology. Dec. 2, 1914. (Farmers' Bulletin 626.)

This bulletin is of interest to housewives in the Northern States.

The House Centipede. By C. L. Marlatt, Entomologist and Assistant Chief of Bureau. Pp. 4, figs. 2. Contribution from the Bureau of Entomology. Dec. 15, 1914. (Farmers' Bulletin 627.)

This bulletin is of interest to housewives throughout the United States. It is a reprint of Bureau of Entomology Circular 48.

Growing Peaches: Varieties and Classification. By H. P. Gould, Pomologist in Charge of Fruit Production Investigations, Office of Horticultural and Pomological Investigations. Pp. 13. Contribution from the Bureau of Plant Industry. Dec. 30, 1914. (Farmers' Bulletin 633.)

This bulletin is intended for general distribution.

The Larger Corn Stalk-Borer. By George G. Ainslie, Entomological Assistant, Cereal and Forage Insect Investigations. Pp. 8, figs. 4. Contribution from the Bureau of Entomology. Dec. 7, 1914. (Farmers' Bulletin 634.)

Gives description and habits of, and methods of control of the larger corn stalk-borer. Of especial interest to farmers in the Southern States.

What the Farm Contributes Directly to the Farmers' Living. By W. C. Funk, Scientific Assistant, Office of Farm Management. Pp. 21, fig. 1. Contribution from the Bureau of Plant Industry. Dec. 24, 1914. (Farmers' Bulletin 635.)

This bulletin gives the results of studies to determine the indirect income furnished by the farm to the farmers' family; it is particularly applicable to the region east of the Rocky Mountains.

The Chalcis-fly in Alfalfa Seed. By Theodore D. Urbahns, Entomological Assistant, Cereal and Forage Insect Investigations. Pp. 10, figs. 10. Contribution from the Bureau of Entomology. Dec. 31, 1914. (Farmers' Bulletin 636.)

This bulletin furnishes a general knowledge of the chalcis-fly, an insect injurious to alfalfa seed, and contains several practical methods for its control.

Eradication of the Cattle Tick Necessary for Profitable Dairying. By J. H. McClain, Dairy Division. Pp. 4, figs. 2. Contribution from the Bureau of Animal Industry. Dec. 19, 1914. (Farmers' Bulletin 639.)

Experiments showing that cows carrying ticks did not hold up so well in milk flow as the cows kept free from ticks and did not increase their flow of milk when the feed was increased, as did the tick-free cows.



The Agricultural Outlook. Contribution from the Bureau of Crop Estimates. Dec. 31, 1914. Pp. 45, fig. 1. (Farmers' Bulletin 645.)

Contents: Yearly crop summary, 1914.—Winter wheat and rye sowings and condition.—The Apple crop.—Forecasts of average sugar and cane yields in Louisiana, 1914.—Florida and California crop report.—Trend of prices of farm products.—Agricultural products shipped into cotton States.—Cold-storage holdings of apples.—The wheat crop of the southern hemisphere.—Acreage, yield per acre, production, prices, and total value of principal crops, 1914, and acreage and condition of winter wheat and rye (tables).—Prices of farm products (tables).

SPECIAL CIRCULARS.

By direction of the Secretary the following "Special Circulars" have been prepared in certain bureaus for distribution among farmers in the cotton belt who desire to diversify their farming operations:

By the Bureau of Animal Industry:

- Feeding Farm Cows in the South.
- Advantages of Dairying in the South.
- The Feeding and Care of Dairy Calves.
- Marketing Butter and Cream in the South.
- How Southern Farmers May Get a Start in Pig Raising.
- Horse and Mule Raising in the South.
- Producing Sheep on Southern Farms.
- Suggestions on Poultry Raising for the Southern Farmer.
- Making Farm Butter in the South.
- Shall Southern Farmers Build Creameries?
- Do You Keep a Cow?
- The Production and Care of Milk and Cream.
- Conveniences for Handling the Farm Cow and Her Products.

By the Bureau of Plant Industry:

- Permanent Pastures for the Cotton Belt.
- Sorghum for Forage in the Cotton Belt.
- Rye in the Cotton Belt.
- Winter Wheat in the Cotton Belt.
- Winter Oats in the Cotton Belt.
- Rape as a Forage Crop in the Cotton Belt.
- Hairy Vetch for the Cotton Belt.
- Soy Bean in the Cotton Belt.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

National Weather and Crop Bulletin, December, 1914, reporting temperature, rainfall, and crop conditions throughout the United States. (Issued weekly, on Tuesday. April to October; monthly remainder of year.) Price, 25 cents a year.

Snow and Ice Bulletins for December 8, 15, 22, 29, 1914. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief Division of Publications.